CLAIMS

1. Transfer car in a conveyance system for metal coils with a chassis (2) that can be moved along a conveyance path (1) by means of a drive and with means for raising and lowering a support saddle (4) along a linear vertical guide (5) on a base frame (3), characterized by the fact that a steel slab, for example, is used as the plate-like base frame (3), on which a scissor lifting unit (6) is mounted for the purpose of linear vertical guidance (5), such that, to raise and lower the support saddle (4), two lifting cylinders (7) are installed some distance apart as the drive and act directly on the support saddle (4).

2. Coil transfer car in accordance with Claim 1, characterized by the fact that a telescoping dual cylinder system (12) is provided for large lifting heights (for example, 1,300 mm), with initially half the lifting height and, supported by this, a following upper position (13) with one telescopic cylinder (14) each until the intended total lift is reached.

3. Coil transfer car in accordance with Claim 1 or Claim 2, characterized by the fact that the upper part of the scissor lifting unit (6) is designed as a support saddle (4) for the useful load.

4. Coil transfer car in accordance with Claim 1, Claim 2, or Claim 3, characterized by the fact that the sliding blocks (8) of the scissor lifting unit (6), which are horizontally guided on the base frame (3), are guided in commercially available linear guides.

5. Coil transfer car in accordance with one or more of Claims 1 to 4, characterized by the fact that running gear (11) equipped with drive mechanisms is installed on the underside of the base frame (3), and that a commercially available system is used as the running gear (11).

6. Coil transfer car in accordance with one or more of Claims 1 to 5, characterized by the fact that standard cylinders (7) of a standard high-pressure class, for example, for an operating pressure of 280 bars, are used as the hydraulic lifting device.

Figure 1.
KEY: Hydraulik = hydraulics

Figure 5.
KEY: Gesamthub = total lift; Hub 1 = lift 1

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